

ABSTRACT

A Mn-Zn based ferrite sintered body containing 62 to 68 mol% of Fe_2O_3 and 12 to 20 mol% of ZnO is made to contain, as main constituents, NiO and/or $\text{LiO}_{0.5}$. Additionally, a Mn-Zn based ferrite sintered body containing 62 to 68 mol% of Fe_2O_3 and 12 to 23 mol% of ZnO is made to contain, as additives, Si and Ca.

This sintered body can achieve such properties that the saturation magnetic flux density at 100°C is 450 mT or more (magnetic field for measurement: 1194 A/m), the minimum core loss value is 1200 kW/m³ or less (measurement conditions: 100 kHz, 200 mT), the bottom temperature at which the minimum core loss value is exhibited is from 60 to 130°C, and the initial permeability at room temperature is 700 or more.